

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of detecting transitions in video comprising:
acquiring a video stream;
dividing ~~said the~~ video stream into a plurality of sub-sections;
determining a probability of whether a one or more synthesized transition effect ~~is effects are~~
present at one of the plurality of sub-sections of ~~said the~~ video stream, wherein the one or more transition effects are of a specified number and a specified type; and
embedding ~~said the~~ probability into ~~said the~~ sub-section of ~~said the~~ video stream.
2. (Currently Amended) The method of ~~Claim 1~~ claim 1, wherein ~~said the~~ determining said probability is performed by a classifier.
3. (Currently Amended) The method of ~~Claim 2~~ claim 2, wherein ~~said the~~ classifier is provided a fixed-sized portion of said sub-section.
4. (Currently Amended) The method of ~~Claim 1~~ claim 1, further comprising outputting a location of ~~said the one or more transition effect~~ effects and a duration of ~~said the one or more transition effect~~ effects in ~~said the~~ video stream.
5. (Cancelled)
6. (Currently Amended) The method of ~~Claim 1~~ claim 1, wherein ~~said the~~ transition ~~is~~ comprises one or more of the following: a dissolve, a fade, a wipe, a iris, a funnel, a mosaic, a roll, a door, a push, a peel, a rotate, ~~or~~ and a special effect.

7-10. (Cancelled)

11. (Currently Amended) A method of processing video comprising:

acquiring a first shot and a second shot from a plurality of video streams, ~~said-the~~ shots

comprising a transition free video stream;

determining a duration of a transition sequence based on probability distribution, the transition sequence including one or more synthesized transition effects of a specified number and a specified type;

generating the transition sequence of the duration, the transition sequence having the one or more transition effects;

generating a video sequence comprising the transition sequence from ~~said-the~~ first shot to ~~said~~ the second shot for said-the determined duration, wherein the transition sequence is inserted into the video sequence; and

training a classifier to detect a transition effect within ~~said-the~~ generated video sequence.

12. (Currently Amended) The method of ~~Claim 11-claim 11~~, wherein ~~said-the~~ probability distribution represents a fixed duration.

13. (Currently Amended) The method of ~~Claim 11-claim 11~~, wherein ~~said-the~~ transition sequence is comprises one or more of the following: a dissolve, a fade, a wipe, a iris, a funnel, a mosaic, a roll, a door, a push, a peel, a rotate, ~~or-and~~ a special effect.

14-18. (Cancelled)

19-23. (Cancelled)

24-25. (Cancelled)

26. (Currently Amended) A machine-readable medium ~~that provides~~ having sets of instructions, which, when executed by a ~~set of one or more processors~~ machine, ~~cause said set of processors to perform operations comprising~~ causes the machine to:
acquiring ~~acquire~~ one or more video streams and a probability distribution, ~~said the~~ video stream including a shot description;
~~determining~~ determine a duration of a transition sequence according to ~~said the~~ probability distribution, said transition sequence including one or more synthesized transition effects of a specified number and a specified type;
~~selecting~~ select, at random, a first shot and a second shot from the one or more video streams, each shot being transition free;
~~generating~~ generate ~~said the~~ transition sequence of ~~said the~~ duration, ~~said the~~ transition sequence including a one or more transition-effect effects; and
training a classifier to detect ~~said the one or more transition effect-effects~~ within ~~said the~~ generated transition sequence.
27. (Currently Amended) The machine-readable medium of claim 26 wherein ~~said the one or more transition effect~~ includes-effects include a portion of ~~said the~~ first shot and a portion of ~~said the~~ second shot.
28. (Currently Amended) The machine-readable medium of claim 26 wherein ~~said the~~ video transition sequence includes a portion of ~~said the~~ first shot before ~~said the~~ transition effect, ~~said~~ said the one or more transition-effect effects, and a portion of ~~said the~~ second shot after ~~said the one or more transition-effect effects~~.
29. (Currently Amended) The machine-readable medium of claim 26 wherein ~~said the one or more transition effect~~ is-effects comprise one or more of the following: a dissolve, a fade, a wipe, a iris, a funnel, a mosaic, a roll, a door, a push, a peel, a rotate, ~~or~~ and a special effect.

30. (Currently Amended) The machine-readable medium of claim 26, further comprising:
training a classifier to detect ~~said~~ the one or more transition ~~effect~~ effects within ~~said~~ the generated transition sequence.
31. (Currently Amended) The method of claim 11, further comprising:
training a classifier to detect ~~a~~ the one or more transition ~~effect~~ effects within ~~said~~ the generated video sequence.
32. (Currently Amended) A system comprising:
a transition synthesizer module to generate a video sequence the video sequence comprising a transition sequence having one or more synthesized transition effects of a specified number and a specified type, wherein prior to generating the video sequence, a duration of the transition sequence is determined based on a probability distribution; and
a classifier module, the classifier module to be trained to identify a transition effect based on the generated video sequence.
33. (Original) The system of claim 32, wherein the transition synthesizer module to generate the video sequence using random video shots from a plurality of video streams, the video shots being transition free.
34. (Currently Amended) The system of claim 32, wherein each synthesized transition effect is associated with ~~a~~ the duration based on ~~a~~ the probability distribution.
35. (Original) The system of claim 32, wherein the training of the classifier module comprises re-scaling a time series of frame-based feature values associated with the generated video sequence.